RAW SEQUENCE LISTING   DATE: 08/13/2002
PATENT APPLICATION: US/09/762,097A   TIME: 13:31:17

Input Set : A:\Seq LIST.txt
Output Set: N:\CRF3\08132002\I762097A.raw

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   3 <110> APPLICANT: HERSHFIELD, MICHAEL S.
   4        KELLY, SUSAN J.
   6 <120> TITLE OF INVENTION: URATE OXIDASE
   8 <130> FILE REFERENCE: 1579-379                    ENTERED
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/762,097A
C--> 11 <141> CURRENT FILING DATE: 2001-08-23
  13 <160> NUMBER OF SEQ ID NOS: 13
  15 <170> SOFTWARE: PatentIn Ver. 2.0
  17 <210> SEQ ID NO: 1
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  19 <212> TYPE: DNA
  20 <213> ORGANISM: Artificial Sequence
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  23 <221> NAME/KEY: CDS
  24 <222> LOCATION: (1)..(915)
  26 <220> FEATURE:
  27 <223> OTHER INFORMATION: Description of Artificial Sequence:PBC CHIMERA
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  35 Val Arg Thr Gly Tyr Gly Lys Asp Met Ile Lys Val Leu His Ile Gln
  36                  20                  25                  30
  38 cga gat gga aaa tat cac agc att aaa gag gtg gca act tca gtg caa  144
  39 Arg Asp Gly Lys Tyr His Ser Ile Lys Glu Val Ala Thr Ser Val Gln
  40              35                  40                  45
  42 ctg act ttg agc tcc aaa aaa gat tac ctg cat gga gac aat tca gat  192
  43 Leu Thr Leu Ser Ser Lys Lys Asp Tyr Leu His Gly Asp Asn Ser Asp
  44          50                  55                  60
  46 gtc atc cct aca gac acc atc aag aac aca gtt aat gtc ctg gcg aag  240
  47 Val Ile Pro Thr Asp Thr Ile Lys Asn Thr Val Asn Val Leu Ala Lys
  48  65                  70                  75                  80
  50 ttc aaa ggc atc aaa agc ata gaa act ttt gct gtg act atc tgt gag  288
  51 Phe Lys Gly Ile Lys Ser Ile Glu Thr Phe Ala Val Thr Ile Cys Glu
  52                  85                  90                  95
  54 cat ttc ctt tct tcc ttc aag cat gtc atc aga gct caa gtc tat gtg  336
  55 His Phe Leu Ser Ser Phe Lys His Val Ile Arg Ala Gln Val Tyr Val
  56                 100                 105                 110
  58 gaa gaa gtt cct tgg aag cgt ttt gaa aag aat gga gtt aag cat gtc  384
  59 Glu Glu Val Pro Trp Lys Arg Phe Glu Lys Asn Gly Val Lys His Val
  60                 115                 120                 125
  62 cat gca ttt att tat act cct act gga acg cac ttc tgt gag gtt gaa  432
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RAW SEQUENCE LISTING   DATE: 08/13/2002
PATENT APPLICATION: US/09/762,097A   TIME: 13:31:17

Input Set : A:\Seq LIST.txt
Output Set: N:\CRF3\08132002\I762097A.raw

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66 cag ata agg aat gga cct cca gtc att cat tct gga atc aaa gac cta    480
67 Gln Ile Arg Asn Gly Pro Pro Val Ile His Ser Gly Ile Lys Asp Leu
68 145             150             155             160
70 aaa gtc ttg aaa aca acc cag tct ggc ttt gaa gga ttc atc aag gac    528
71 Lys Val Leu Lys Thr Thr Gln Ser Gly Phe Glu Gly Phe Ile Lys Asp
72             165             170             175
74 cag ttc acc acc ctc cct gag gtg aag gac cgg tgc ttt gcc acc caa    576
75 Gln Phe Thr Thr Leu Pro Glu Val Lys Asp Arg Cys Phe Ala Thr Gln
76             180             185             190
78 gtg tac tgc aaa tgg cgc tac cac cag ggc aga gat gtg gac ttt gag    624
79 Val Tyr Cys Lys Trp Arg Tyr His Gln Gly Arg Asp Val Asp Phe Glu
80         195             200             205
82 gcc acc tgg gac act gtt agg agc att gtc ctg cag aaa ttt gct ggg    672
83 Ala Thr Trp Asp Thr Val Arg Ser Ile Val Leu Gln Lys Phe Ala Gly
84         210             215             220
86 ccc tat gac aaa ggc gag tac tca ccc tct gtg cag aag acc ctc tat    720
87 Pro Tyr Asp Lys Gly Glu Tyr Ser Pro Ser Val Gln Lys Thr Leu Tyr
88 225             230             235             240
90 gat atc cag gtg ctc tcc ctg agc cga gtt cct gag ata gaa gat atg    768
91 Asp Ile Gln Val Leu Ser Leu Ser Arg Val Pro Glu Ile Glu Asp Met
92             245             250             255
94 gaa atc agc ctg cca aac att cac tac ttc aat ata gac atg tcc aaa    816
95 Glu Ile Ser Leu Pro Asn Ile His Tyr Phe Asn Ile Asp Met Ser Lys
96             260             265             270
98 atg ggt ctg atc aac aag gaa gag gtc ttg ctg cca tta gac aat cca    864
99 Met Gly Leu Ile Asn Lys Glu Glu Val Leu Leu Pro Leu Asp Asn Pro
100         275             280             285
102 tat gga aaa att act ggt aca gtc aag agg aag ttg tct tca aga ctg   912
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104     290             295             300
106 tga                                                               915
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112 <212> TYPE: PRT
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
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123             20              25              30
125 Arg Asp Gly Lys Tyr His Ser Ile Lys Glu Val Ala Thr Ser Val Gln
126         35              40              45
128 Leu Thr Leu Ser Ser Lys Lys Asp Tyr Leu His Gly Asp Asn Ser Asp
129     50              55              60
131 Val Ile Pro Thr Asp Thr Ile Lys Asn Thr Val Asn Val Leu Ala Lys
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RAW SEQUENCE LISTING   DATE: 08/13/2002
PATENT APPLICATION: US/09/762,097A   TIME: 13:31:17

Input Set : A:\Seq LIST.txt
Output Set: N:\CRF3\08132002\I762097A.raw

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138                     100              105              110
140 Glu Glu Val Pro Trp Lys Arg Phe Glu Lys Asn Gly Val Lys His Val
141         115                  120              125
143 His Ala Phe Ile Tyr Thr Pro Thr Gly Thr His Phe Cys Glu Val Glu
144     130                  135              140
146 Gln Ile Arg Asn Gly Pro Pro Val Ile His Ser Gly Ile Lys Asp Leu
147 145                  150              155                  160
149 Lys Val Leu Lys Thr Thr Gln Ser Gly Phe Glu Gly Phe Ile Lys Asp
150                 165              170                  175
152 Gln Phe Thr Thr Leu Pro Glu Val Lys Asp Arg Cys Phe Ala Thr Gln
153             180              185              190
155 Val Tyr Cys Lys Trp Arg Tyr His Gln Gly Arg Asp Val Asp Phe Glu
156         195              200              205
158 Ala Thr Trp Asp Thr Val Arg Ser Ile Val Leu Gln Lys Phe Ala Gly
159     210              215              220
161 Pro Tyr Asp Lys Gly Glu Tyr Ser Pro Ser Val Gln Lys Thr Leu Tyr
162 225              230              235                  240
164 Asp Ile Gln Val Leu Ser Leu Ser Arg Val Pro Glu Ile Glu Asp Met
165             245              250              255
167 Glu Ile Ser Leu Pro Asn Ile His Tyr Phe Asn Ile Asp Met Ser Lys
168             260              265              270
170 Met Gly Leu Ile Asn Lys Glu Glu Val Leu Leu Pro Leu Asp Asn Pro
171         275              280              285
173 Tyr Gly Lys Ile Thr Gly Thr Val Lys Arg Lys Leu Ser Ser Arg Leu
174     290              295              300
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179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
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184 <222> LOCATION: (1)..(915)
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194 gtc cga act ggc tat ggg aag gat atg ata aaa gtt ctc cat att cag    96
195 Val Arg Thr Gly Tyr Gly Lys Asp Met Ile Lys Val Leu His Ile Gln
196             20                  25                  30
198 cga gat gga aaa tat cac agc att aaa gag gtg gca act tca gtg caa   144
199 Arg Asp Gly Lys Tyr His Ser Ile Lys Glu Val Ala Thr Ser Val Gln
200         35                  40                  45
202 ctg act ttg agc tcc aaa aaa gat tac ctg cat gga gac aat tca gat   192
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203 Leu Thr Leu Ser Ser Lys Lys Asp Tyr Leu His Gly Asp Asn Ser Asp
204      50              55                  60
206 gtc atc cct aca gac acc atc aag aac aca gtt aat gtc ctg gcg aag     240
207 Val Ile Pro Thr Asp Thr Ile Lys Asn Thr Val Asn Val Leu Ala Lys
208 65                  70                  75                  80
210 ttc aaa ggc atc aaa agc ata gaa act ttt gct gtg act atc tgt gag     288
211 Phe Lys Gly Ile Lys Ser Ile Glu Thr Phe Ala Val Thr Ile Cys Glu
212              85                  90                  95
214 cat ttc ctt tct tcc ttc aag cat gtc atc aga gct caa gtc tat gtg     336
215 His Phe Leu Ser Ser Phe Lys His Val Ile Arg Ala Gln Val Tyr Val
216              100                 105                 110
218 gaa gaa gtt cct tgg aag cgt ttt gaa aag aat gga gtt aag cat gtc     384
219 Glu Glu Val Pro Trp Lys Arg Phe Glu Lys Asn Gly Val Lys His Val
220          115                 120                 125
222 cat gca ttt att tat act cct act gga acg cac ttc tgt gag gtt gaa     432
223 His Ala Phe Ile Tyr Thr Pro Thr Gly Thr His Phe Cys Glu Val Glu
224      130                 135                 140
226 cag ata agg aat gga cct cca gtc att cat tct gga atc aaa gac cta     480
227 Gln Ile Arg Asn Gly Pro Pro Val Ile His Ser Gly Ile Lys Asp Leu
228 145                 150                 155                 160
230 aaa gtc ttg aaa aca acc cag tct ggc ttt gaa gga ttc atc aag gac     528
231 Lys Val Leu Lys Thr Thr Gln Ser Gly Phe Glu Gly Phe Ile Lys Asp
232              165                 170                 175
234 cag ttc acc acc ctc cct gag gtg aag gac cgg tgc ttt gcc acc caa     576
235 Gln Phe Thr Thr Leu Pro Glu Val Lys Asp Arg Cys Phe Ala Thr Gln
236              180                 185                 190
238 gtg tac tgc aaa tgg cgc tac cac cag ggc aga gat gtg gac ttt gag     624
239 Val Tyr Cys Lys Trp Arg Tyr His Gln Gly Arg Asp Val Asp Phe Glu
240              195                 200                 205
242 gcc acc tgg gac act gtt agg agc att gtc ctg cag aaa ttt gct ggg     672
243 Ala Thr Trp Asp Thr Val Arg Ser Ile Val Leu Gln Lys Phe Ala Gly
244      210                 215                 220
246 ccc tat gac aaa ggc gag tac tcg ccc tct gtc cag aag aca ctc tat     720
247 Pro Tyr Asp Lys Gly Glu Tyr Ser Pro Ser Val Gln Lys Thr Leu Tyr
248 225                 230                 235                 240
250 gac atc cag gtg ctc acc ctg ggc cag gtt cct gag ata gaa gat atg     768
251 Asp Ile Gln Val Leu Thr Leu Gly Gln Val Pro Glu Ile Glu Asp Met
252              245                 250                 255
254 gaa atc agc ctg cca aat att cac tac tta aac ata gac atg tcc aaa     816
255 Glu Ile Ser Leu Pro Asn Ile His Tyr Leu Asn Ile Asp Met Ser Lys
256              260                 265                 270
258 atg gga ctg atc aac aag gaa gag gtc ttg cta cct tta gac aat cca     864
259 Met Gly Leu Ile Asn Lys Glu Glu Val Leu Leu Pro Leu Asp Asn Pro
260              275                 280                 285
262 tat gga aaa att act ggt aca gtc aag agg aag ttg tct tca aga ctg     912
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264      290                 295                 300
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270 <210> SEQ ID NO: 4
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276 <223> OTHER INFORMATION: Description of Artificial Sequence:pks chimera
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283             20                  25                  30
285 Arg Asp Gly Lys Tyr His Ser Ile Lys Glu Val Ala Thr Ser Val Gln
286         35                  40                  45
288 Leu Thr Leu Ser Ser Lys Lys Asp Tyr Leu His Gly Asp Asn Ser Asp
289     50                  55                  60
291 Val Ile Pro Thr Asp Thr Ile Lys Asn Thr Val Asn Val Leu Ala Lys
292 65                  70                  75                  80
294 Phe Lys Gly Ile Lys Ser Ile Glu Thr Phe Ala Val Thr Ile Cys Glu
295                 85                  90                  95
297 His Phe Leu Ser Ser Phe Lys His Val Ile Arg Ala Gln Val Tyr Val
298             100                 105                 110
300 Glu Glu Val Pro Trp Lys Arg Phe Glu Lys Asn Gly Val Lys His Val
301         115                 120                 125
303 His Ala Phe Ile Tyr Thr Pro Thr Gly Thr His Phe Cys Glu Val Glu
304     130                 135                 140
306 Gln Ile Arg Asn Gly Pro Pro Val Ile His Ser Gly Ile Lys Asp Leu
307 145                 150                 155                 160
309 Lys Val Leu Lys Thr Thr Gln Ser Gly Phe Glu Gly Phe Ile Lys Asp
310                 165                 170                 175
312 Gln Phe Thr Thr Leu Pro Glu Val Lys Asp Arg Cys Phe Ala Thr Gln
313             180                 185                 190
315 Val Tyr Cys Lys Trp Arg Tyr His Gln Gly Arg Asp Val Asp Phe Glu
316         195                 200                 205
318 Ala Thr Trp Asp Thr Val Arg Ser Ile Val Leu Gln Lys Phe Ala Gly
319     210                 215                 220
321 Pro Tyr Asp Lys Gly Glu Tyr Ser Pro Ser Val Gln Lys Thr Leu Tyr
322 225                 230                 235                 240
324 Asp Ile Gln Val Leu Thr Leu Gly Gln Val Pro Glu Ile Glu Asp Met
325             245                 250                 255
327 Glu Ile Ser Leu Pro Asn Ile His Tyr Leu Asn Ile Asp Met Ser Lys
328             260                 265                 270
330 Met Gly Leu Ile Asn Lys Glu Glu Val Leu Leu Pro Leu Asp Asn Pro
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VERIFICATION SUMMARY   DATE: 08/13/2002
PATENT APPLICATION: US/09/762,097A   TIME: 13:31:18

Input Set : **A:\Seq LIST.txt**
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L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date